

SEQUENCE LISTING

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Yamada, Yoshiki

<120> METHODS FOR PRODUCING ANTIBODIES

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<160> 4

<170> PatentIn Ver. 2.1

<210> 1
<211> 28
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:an artificially synthesized primer sequence

<400> 1

gaattccacc atggtaagcg ctattgtt

28

<210> 2
<211> 26
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:an artificially synthesized primer sequence

<400> 2

gaattcttaa tattgtctat tacggc

26

<210> 3
<211> 1539
<212> DNA
<213> Baculovirus

<220>

<221> CDS

<222> (1)...(1539)

<400> 3				
atg gta agc gct att gtt tta tat gtg ctt ttg gcg gcg gcg gcg cat	48			
Met Val Ser Ala Ile Val Leu Tyr Val Leu Leu Ala Ala Ala Ala His				
1	5	10	15	
tct gcc ttt gcg gcg gag cac tgc aac gcg caa atg aag acg ggt ccg	96			
Ser Ala Phe Ala Ala Glu His Cys Asn Ala Gln Met Lys Thr Gly Pro				
20	25	30		
tac aag att aaa aac ttg gac att acc ccg ccc aag gaa acg ctg caa	144			
Tyr Lys Ile Lys Asn Leu Asp Ile Thr Pro Pro Lys Glu Thr Leu Gln				
35	40	45		
aag gac gtg gaa atc acc atc gtg gag acg gac tac aac gaa aac gtg	192			
Lys Asp Val Glu Ile Thr Ile Val Glu Thr Asp Tyr Asn Glu Asn Val				
50	55	60		
att atc ggc tac aag ggg tac tac cag gcg tat gcg tac aac ggc ggc	240			
Ile Ile Gly Tyr Lys Gly Tyr Tyr Gln Ala Tyr Ala Tyr Asn Gly Gly				
65	70	75	80	
tcg ctg gat ccc aac aca cgc gtc gaa gaa acc atg aaa acg ctg aat	288			
Ser Leu Asp Pro Asn Thr Arg Val Glu Glu Thr Met Lys Thr Leu Asn				
85	90	95		
gtg ggc aaa gag gat ttg ctt atg tgg agc atc agg cag cag tgc gag	336			
Val Gly Lys Glu Asp Leu Leu Met Trp Ser Ile Arg Gln Gln Cys Glu				
100	105	110		
gtg ggc gaa gag ctg atc gac cgt tgg ggc agt gac agc gac gac tgt	384			
Val Gly Glu Glu Leu Ile Asp Arg Trp Gly Ser Asp Ser Asp Asp Cys				
115	120	125		
ttt cgc gac aac gag ggc cgc ggc cag tgg gtc aaa ggc aaa gag ttg	432			
Phe Arg Asp Asn Glu Gly Arg Gly Gln Trp Val Lys Gly Lys Glu Leu				
130	135	140		
gtg aag cgg cag aat aac aat cac ttt gcg cac cac acg tgc aac aaa	480			
Val Lys Arg Gln Asn Asn Asn His Phe Ala His His Thr Cys Asn Lys				
145	150	155	160	
tcg tgg cga tgc ggc att tcc act tcg aaa atg tac agc agg ctc gag	528			
Ser Trp Arg Cys Gly Ile Ser Thr Ser Lys Met Tyr Ser Arg Leu Glu				
165	170	175		
tgc cag gac gac gac gag tgc cag gta tac att ttg gac gct gag	576			
Cys Gln Asp Asp Thr Asp Glu Cys Gln Val Tyr Ile Leu Asp Ala Glu				
180	185	190		
ggc aac ccc atc aac gtg acc gtg gac act gtg ctt cat cga gac ggc	624			
Gly Asn Pro Ile Asn Val Thr Val Asp Thr Val Leu His Arg Asp Gly				
195	200	205		
gtg agt atg att ctc aaa caa aag tct acg ttc acc acg cgc caa ata	672			
Val Ser Met Ile Leu Lys Gln Lys Ser Thr Phe Thr Thr Arg Gln Ile				

210	215	220	
aaa gct gcg tgt ctg ctc att aaa gat gac aaa aat aac ccc gag tcg Lys Ala Ala Cys Leu Leu Ile Lys Asp Asp Lys Asn Asn Pro Glu Ser 225	230	235	720
gtg aca cgc gaa cac tgt ttg att gac aat gat ata tat gat ctt tct Val Thr Arg Glu His Cys Leu Ile Asp Asn Asp Ile Tyr Asp Leu Ser 245	250	255	768
aaa aac acg tgg aac tgc aag ttt aac aga tgc att aaa cgc aaa gtc Lys Asn Thr Trp Asn Cys Lys Phe Asn Arg Cys Ile Lys Arg Lys Val 260	265	270	816
gag cac cga gtc aag aag cgg ccg ccc act tgg cgc cac aac gtt aga Glu His Arg Val Lys Lys Arg Pro Pro Thr Trp Arg His Asn Val Arg 275	280	285	864
gcc aag tac aca gag gga gac act gcc acc aaa ggc gac ctg atg cat Ala Lys Tyr Thr Glu Gly Asp Thr Ala Thr Lys Gly Asp Leu Met His 290	295	300	912
att caa gag gag ctg atg tac gaa aac gat ttg ctg aaa atg aac att Ile Gln Glu Glu Leu Met Tyr Glu Asn Asp Leu Leu Lys Met Asn Ile 305	310	315	960
gag ctg atg cat gcg cac atc aac aag cta aac aat atg ctg cac gac Glu Leu Met His Ala His Ile Asn Lys Leu Asn Asn Met Leu His Asp 325	330	335	1008
ctg ata gtc tcc gtg gcc aag gtg gac gag cgt ttg att ggc aat ctc Leu Ile Val Ser Val Ala Lys Val Asp Glu Arg Leu Ile Gly Asn Leu 340	345	350	1056
atg aac aac tct gtt tct tca aca ttt ttg tcg gac gac acg ttt ttg Met Asn Asn Ser Val Ser Ser Thr Phe Leu Ser Asp Asp Thr Phe Leu 355	360	365	1104
ctg atg ccg tgc acc aat ccg ccg gca cac acc agt aat tgc tac aac Leu Met Pro Cys Thr Asn Pro Pro Ala His Thr Ser Asn Cys Tyr Asn 370	375	380	1152
aac agc atc tac aaa gaa ggg cgt tgg gtg gcc aac acg gac tcg tcg Asn Ser Ile Tyr Lys Glu Gly Arg Trp Val Ala Asn Thr Asp Ser Ser 385	390	395	1200
caa tgc ata gat ttt agc aac tac aag gaa cta gca att gac gac gac Gln Cys Ile Asp Phe Ser Asn Tyr Lys Glu Leu Ala Ile Asp Asp Asp 405	410	415	1248
gtc gag ttt tgg atc ccg acc atc ggc aac acg acc tat cac gac agt Val Glu Phe Trp Ile Pro Thr Ile Gly Asn Thr Thr Tyr His Asp Ser 420	425	430	1296
tgg aaa gat gcc agc ggc tgg tcg ttt att gcc caa caa aaa agc aac Trp Lys Asp Ala Ser Gly Trp Ser Phe Ile Ala Gln Gln Lys Ser Asn 435	440	445	1344

ctc ata acc acc atg gag aac acc aag ttt ggc ggc gtc ggc acc agt		1392
Leu Ile Thr Thr Met Glu Asn Thr Lys Phe Gly Gly Val Gly Thr Ser		
450	455	460
ctg agc gac atc act tcc atg gct gaa ggc gaa ttg gcc gct aaa ttg		1440
Leu Ser Asp Ile Thr Ser Met Ala Glu Gly Glu Leu Ala Ala Lys Leu		
465	470	475
480		
act tcg ttc atg ttt ggt cat gta gtt aac ttt gta att ata tta att		1488
Thr Ser Phe Met Phe Gly His Val Val Asn Phe Val Ile Ile Leu Ile		
485	490	495
gtg att tta ttt ttg tac tgt atg att aga aac cgt aat aga caa tat		1536
Val Ile Leu Phe Leu Tyr Cys Met Ile Arg Asn Arg Asn Arg Gln Tyr		
500	505	510
taa		1539

<210> 4
<211> 512
<212> PRT
<213> Baculovirus

<400> 4			
Met Val Ser Ala Ile Val Leu Tyr Val Leu Leu Ala Ala Ala Ala His			
1	5	10	15
Ser Ala Phe Ala Ala Glu His Cys Asn Ala Gln Met Lys Thr Gly Pro			
20	25	30	
Tyr Lys Ile Lys Asn Leu Asp Ile Thr Pro Pro Lys Glu Thr Leu Gln			
35	40	45	
Lys Asp Val Glu Ile Thr Ile Val Glu Thr Asp Tyr Asn Glu Asn Val			
50	55	60	
Ile Ile Gly Tyr Lys Gly Tyr Tyr Gln Ala Tyr Ala Tyr Asn Gly Gly			
65	70	75	80
Ser Leu Asp Pro Asn Thr Arg Val Glu Glu Thr Met Lys Thr Leu Asn			
85	90	95	
Val Gly Lys Glu Asp Leu Leu Met Trp Ser Ile Arg Gln Gln Cys Glu			
100	105	110	
Val Gly Glu Leu Ile Asp Arg Trp Gly Ser Asp Ser Asp Asp Cys			
115	120	125	
Phe Arg Asp Asn Glu Gly Arg Gly Gln Trp Val Lys Gly Lys Glu Leu			
130	135	140	
Val Lys Arg Gln Asn Asn Asn His Phe Ala His His Thr Cys Asn Lys			
145	150	155	160
Ser Trp Arg Cys Gly Ile Ser Thr Ser Lys Met Tyr Ser Arg Leu Glu			
165	170	175	
Cys Gln Asp Asp Thr Asp Glu Cys Gln Val Tyr Ile Leu Asp Ala Glu			
180	185	190	
Gly Asn Pro Ile Asn Val Thr Val Asp Thr Val Leu His Arg Asp Gly			
195	200	205	
Val Ser Met Ile Leu Lys Gln Lys Ser Thr Phe Thr Thr Arg Gln Ile			
210	215	220	
Lys Ala Ala Cys Leu Leu Ile Lys Asp Asp Lys Asn Asn Pro Glu Ser			
225	230	235	240

Val Thr Arg Glu His Cys Leu Ile Asp Asn Asp Ile Tyr Asp Leu Ser
 245 250 255
 Lys Asn Thr Trp Asn Cys Lys Phe Asn Arg Cys Ile Lys Arg Lys Val
 260 265 270
 Glu His Arg Val Lys Lys Arg Pro Pro Thr Trp Arg His Asn Val Arg
 275 280 285
 Ala Lys Tyr Thr Glu Gly Asp Thr Ala Thr Lys Gly Asp Leu Met His
 290 295 300
 Ile Gln Glu Glu Leu Met Tyr Glu Asn Asp Leu Leu Lys Met Asn Ile
 305 310 315 320
 Glu Leu Met His Ala His Ile Asn Lys Leu Asn Asn Met Leu His Asp
 325 330 335
 Leu Ile Val Ser Val Ala Lys Val Asp Glu Arg Leu Ile Gly Asn Leu
 340 345 350
 Met Asn Asn Ser Val Ser Ser Thr Phe Leu Ser Asp Asp Thr Phe Leu
 355 360 365
 Leu Met Pro Cys Thr Asn Pro Pro Ala His Thr Ser Asn Cys Tyr Asn
 370 375 380
 Asn Ser Ile Tyr Lys Glu Gly Arg Trp Val Ala Asn Thr Asp Ser Ser
 385 390 395 400
 Gln Cys Ile Asp Phe Ser Asn Tyr Lys Glu Leu Ala Ile Asp Asp Asp
 405 410 415
 Val Glu Phe Trp Ile Pro Thr Ile Gly Asn Thr Thr Tyr His Asp Ser
 420 425 430
 Trp Lys Asp Ala Ser Gly Trp Ser Phe Ile Ala Gln Gln Lys Ser Asn
 435 440 445
 Leu Ile Thr Thr Met Glu Asn Thr Lys Phe Gly Gly Val Gly Thr Ser
 450 455 460
 Leu Ser Asp Ile Thr Ser Met Ala Glu Gly Glu Leu Ala Ala Lys Leu
 465 470 475 480
 Thr Ser Phe Met Phe Gly His Val Val Asn Phe Val Ile Ile Leu Ile
 485 490 495
 Val Ile Leu Phe Leu Tyr Cys Met Ile Arg Asn Arg Asn Arg Gln Tyr
 500 505 510